

Title (en)
SEPARATOR FOR LITHIUM ION BATTERY

Title (de)
SEPARATOR FÜR LITHIUM-IONEN-BATTERIE

Title (fr)
SÉPARATEUR POUR BATTERIE AU LITHIUM-ION

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Application
EP 23161865 A 20191011

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- JP 2019141639 A 20190731
- JP 2019141651 A 20190731
- EP 19871776 A 20191011
- JP 2019040342 W 20191011

Abstract (en)
A separator for an electricity storage device wherein the shutdown temperature is 130 °C to 160 °C and the meltdown temperature is 200 °C or higher, as measured based on the electrical resistance under pressure of 10.0 MPa.

IPC 8 full level
H01M 50/417 (2021.01); **C08J 9/26** (2006.01); **C08J 9/36** (2006.01); **H01G 11/52** (2013.01); **H01G 11/58** (2013.01); **H01G 11/84** (2013.01); **H01M 6/16** (2006.01); **H01M 10/04** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/0566** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/0585** (2010.01); **H01M 10/0587** (2010.01); **H01M 50/403** (2021.01); **H01M 50/411** (2021.01); **H01M 50/446** (2021.01); **H01M 50/451** (2021.01); **H01M 50/609** (2021.01)

CPC (source: CN EP KR US)
C08J 9/26 (2013.01 - EP KR); **C08J 9/36** (2013.01 - EP KR); **H01G 11/52** (2013.01 - EP KR); **H01G 11/58** (2013.01 - EP); **H01G 11/84** (2013.01 - EP); **H01M 10/0431** (2013.01 - EP); **H01M 10/052** (2013.01 - KR); **H01M 10/0525** (2013.01 - CN EP US); **H01M 10/056** (2013.01 - KR); **H01M 10/0568** (2013.01 - EP); **H01M 10/0585** (2013.01 - EP KR); **H01M 10/0587** (2013.01 - EP KR US); **H01M 50/40** (2021.01 - CN); **H01M 50/403** (2021.01 - CN EP KR US); **H01M 50/409** (2021.01 - KR); **H01M 50/411** (2021.01 - EP US); **H01M 50/414** (2021.01 - KR); **H01M 50/417** (2021.01 - EP KR); **H01M 50/443** (2021.01 - EP US); **H01M 50/446** (2021.01 - EP KR); **H01M 50/449** (2021.01 - KR); **H01M 50/451** (2021.01 - EP); **H01M 50/46** (2021.01 - US); **H01M 50/489** (2021.01 - EP KR US); **H01M 50/491** (2021.01 - EP KR US); **H01M 50/609** (2021.01 - EP); **H01M 2300/0025** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - KR)

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- [XDA] JP H11172036 A 19990629 - KUREHA CHEMICAL IND CO LTD
- [AD] JP H11144700 A 19990528 - KUREHA CHEMICAL IND CO LTD
- [A] KR 20160129583 A 20161109 - LG CHEMICAL LTD [KR]

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US 11670822 B2 20230606; **US 2021057701 A1 20210225**; CN 111602265 A 20200828; CN 111602265 B 20221101; CN 115172070 A 20221011; CN 115172985 A 20221011; CN 115207563 A 20221018; CN 115295956 A 20221104; EP 3866220 A1 20210818; EP 3866220 A4 20211215; EP 4053987 A2 20220907; EP 4053987 A3 20220914; EP 4220845 A2 20230802; EP 4220845 A3 20230830; EP 4350875 A2 20240410; EP 4350875 A3 20240605; JP 2021048138 A 20210325; JP 2021122022 A 20210826; JP 2021122023 A 20210826; JP 2021122024 A 20210826; JP 2023011734 A 20230124; JP 6850941 B2 20210331; JP 7000540 B2 20220204; JP 7045508 B2 20220331; JP 7112568 B2 20220803; JP 7167245 B2 20221108; JP WO2020075865 A1 20210215; KR 102409258 B1 20220615; KR 102436842 B1 20220826; KR 102456852 B1 20221021; KR 102609218 B1 20231205; KR 20200060489 A 20200529; KR 20210134062 A 20211108; KR 20220056882 A 20220506; KR 20220119165 A 20220826; US 2023006305 A1 20230105; US 2023006306 A1 20230105; WO 2020075865 A1 20200416

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US 201916957908 A 20191011; CN 201980007241 A 20191011; CN 202210863211 A 20191011; CN 202210864356 A 20191011; CN 202210864357 A 20191011; CN 202210864759 A 20191011; EP 19871776 A 20191011; EP 22169042 A 20191011; EP 23161865 A 20191011; EP 24159635 A 20191011; JP 2019040342 W 20191011; JP 2020203644 A 20201208; JP 2020507716 A 20191011; JP 2021083369 A 20210517; JP 2021083370 A 20210517; JP 2021083394 A 20210517; JP 2022171417 A 20221026; KR 20207012552 A 20191011; KR 20217034589 A 20191011; KR 20227013458 A 20191011; KR 20227027368 A 20191011; US 202217849120 A 20220624; US 202217849149 A 20220624